PROJECT DESCRIPTION

# INTERSECTION OPERATION

THE INTERSECTION CURRENTLY OPERATES IN A NEMA FOUR-PHASE, FULLY-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR THE WESTBOUND DIRECTION OF MD 22. THE INTERSECTION WILL NOW OPERATE IN A NEMA SIX-PHASE, FULLY-ACTUATED MODE WITH AN EXCLUSIVE-PERMISSIVE LEFT TURN PHASE FOR BOTH DIRECTIONS OF MD 22 AND SIDE STREET SPLIT PHASING. THE INTERSECTION IS CURRENTLY PART OF THE MD 22 INTERCONNECT SYSTEM.

MR. ANDRE FUTRELL

MR. EUGENE BAILEY

MS. DARLENE EIDE SUPPLY OFFICE

(410) 787-7676

(410) 787-7668

CHIEF, SIGN OPERATIONS

SIGNAL SHOP WAREHOUSE

(410) 321-2761

ASSISTANT DISTRICT ENGINEER - MAINTENANCE

THIS PROJECT INVOLVES THE MODIFICATION OF THE EXISTING TRAFFIC CONTROL SIGNAL AT THE INTERSECTION OF

#### CONTACT PERSONS FOR DISTRICT 4 ARE AS FOLLOWS:

MS. ERIN KUHN

ASSISTANT DISTRICT ENGINEER - TRAFFIC (410) 321–2781 /2785

MR. MICHAEL PASQUARIELLO

UTILITY ENGINEER (410) 321-2841

# CONTACTS FOR OFFICE OF TRAFFIC AND SAFETY

MR. RICHARD DAFF, SR. CHIEF, TRAFFIC OPERATIONS

(410) 787-7630 MR. ROBERT SNYDER ASSISTANT DIVISION CHIEF. TRAFFIC OPERATIONS (410) 787-7631

MR. ED RODENHIZER CHIEF, SIGNAL OPERATIONS SECTION (410) 787-7652

**EQUIPMENT LIST "A"** 

A. EQUIPMENT TO BE FURNISHED BY THE SHA AND INSTALLED BY THE CONTRACTOR

NONE

### **EQUIPMENT LIST "B"**

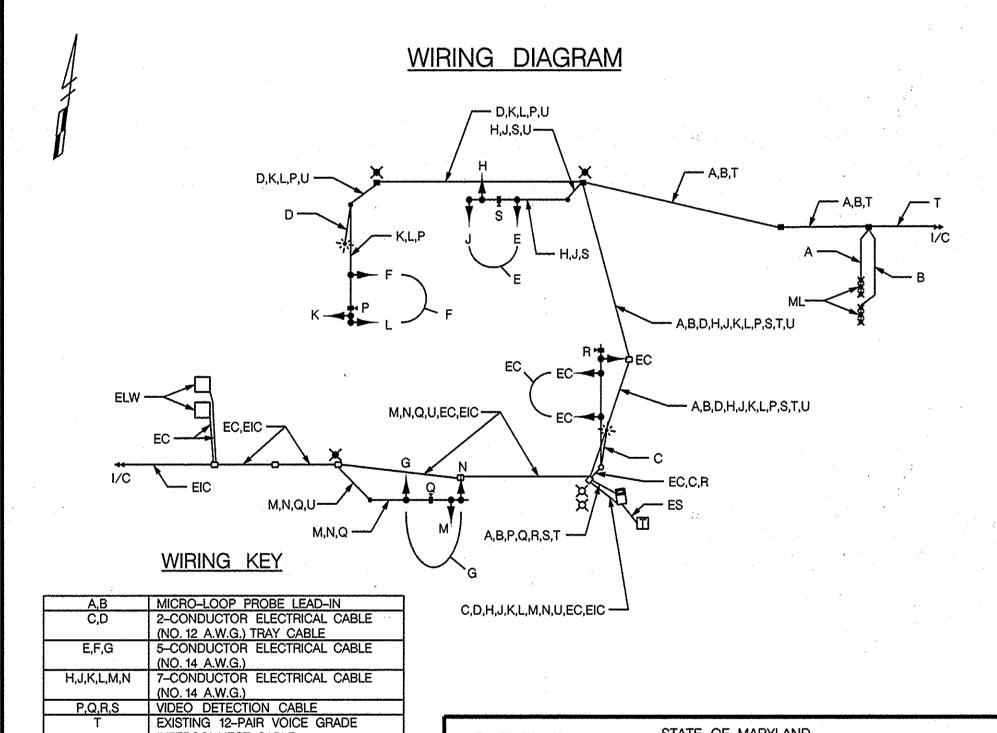
B. EQUIPMENT TO BE FURNISHED AND/OR INSTALLED BY CONTRACTOR. ALL EQUIPMENT SHALL HAVE CATALOG CUTS SUBMITTED TO THE OFFICE OF TRAFFIC AND SAFETY FOR APPROVAL PRIOR TO INSTALLATION.

QUANTITY	DESCRIPTION
LS	MAINTENANCE OF TRAFFIC
1 CY	TEST PIT EXCAVATION
125 LF	24 IN. WHITE HEAT APPLIED THERMOPLASTIC PAVEMENT MARKINGS
1 EA	VIDEO INTERFACE EQUIPMENT
30 EA	12 INCH LED SIGNAL HEAD SECTION
9 EA	8 INCH LED SIGNAL HEAD SECTION
9 CY	CONCRETE FOUNDATION FOR SIGNAL
3 EA	27 FT. MAST ARM POLE & 50 FT. MAST ARM
2 EA	15 FT. LIGHTING ARM WITH 250 WATT HPSV LUMINAIRE WITH PHOTOCELL
4 EA	ELECTRICAL HANDHOLE
10 LF	1 IN. DETECTOR SLEEVE GALVANIZED OR FLEXIBLE, LIQUID-TIGHT CONDUIT
675 LF	3 IN. SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT - TRENCHED
55 LF	3 IN SCHEDULE 80 RIGID PVC ELECTRICAL CONDUIT- SLOTTED
LS	REMOVE AND DISPOSAL OF EXISTING MATERIAL AND EQUIPMENT
3 EA	VIDEO DETECTION CAMERA AND 500 FT. CABLE
1 EA	VIDEO DETECTION CAMERA AND 100 FT. CABLE
45 LF	WOOD SIGN SUPPORTS 4 IN. X 4 IN.
80 LF	ELECTRICAL CABLE 5 - CONDUCTOR (NO. 14 A.W.G.)
1475 LF	ELECTRICAL CABLE 7 - CONDUCTOR (NO. 14 A.W.G.)
355 LF	ELECTRICAL CABLE 2 - CONDUCTOR (NO. 12 A.W.G.)
345 LF	STRANDED BARE COPPER GROUND WIRE (NO. 6 A.W.G.)
2055 LF	DISCONNECT, PULL BACK AND REROUTE INTERCONNECT CABLE
3 EA	3/4 IN. X 10 FT. GROUND ROD
55 LF	SAW CUT FOR SIGNAL (LOOP DETECTOR)
2 EA .	MICRO-LOOP PROBE WITH 500 FT. LEAD IN CABLE
2 EA	D3-2 (VAR X 16") DUAL FACE SIGN - MAST ARM MOUNT
2 EA	SHIELD ASSEMBLY (36" X 75") - POLE MOUNT
2 EA	SHIELD ASSEMBLY (24" X 51") - POLE MOUNT
2 EA	R3-5L (30" X 36") SIGN - MAST ARM MOUNT
1 EA	R3-6L (30" X 36") SIGN - MAST ARM MOUNT
1 EA	R3-5R (30" X 36") SIGN - MAST ARM MOUNT
1 EA	CUT, CLEAN, GALVANIZE, AND CAP MAST ARM
2 EA	NEMA LOAD SWITCH
,	

## PHASE CHART

	1 (1) (1) (1)	2 (R) (Y) Y (G) G	3 (R) > (G)	4	5 (*Y) Y (*G) G	6 R > G	7	8 (R) (V) (G)	9 R Y G	10	11 R (Y) Y (G) G	12 R Y G		* . *
DUACE 1.8 E	R	R	D	R	R	Ω	В	0	D	D	D	Ω	* *	7

PHASE	1 & 5	<b>←</b> G−	<b>4</b> -G−	R	<b>4</b> -G-	<b>4</b> -G	R	R	R	R	R	R	R	<i></i>
1 & 5	CHANGE		PHASI	E 1 & 5	5 MAY	CHANG	E TO	PHASE	1 & 6,	2 & 5,	OR 2 8	ፄ 6		- <b>/</b> ,
PHASE	1 & 6	G <b>←</b> G−	G <b>←</b> G−	G	R	R	R	R	R	R	R	R	R	<i>†</i> • • • • • • • • • • • • • • • • • • •
1&6	CHANGE	G <b>∢</b> -Y	G <b>4</b> -Y-	G	R	R	R	R	R	R	R	R	R	,
PHASE	2 & 5	R	R	R	G <b>4</b> -G−	G ◆G-	G	R	R	R	R	R	R	<u> </u>
2 & 5	CHANGE	R	R	R	G <b>4</b> -Y-	G ◆Y-	G	R	R	R	R	R	R	· 🗸
PHASE	2 & 6	G	.G	G	G	G	G	R	R	R	R	R	R	4
2 & 6	CHANGE	Υ	Υ	Υ	Υ	Υ	Υ	R	R	R	R	R	R	-
PHASE	3	R	R	R	R	R	R	R	R	R	დ ქ <b>ტ</b>	ი   •	G	] ]
3 CHAI	VGE	R	R	R	R	R	R	R	R	R	<b>→</b> Y	<b>◆</b> Y	Y	- <b>.</b>
PHASE	4	R	R	R	R	R	R	G <b>←</b> G−	G <b>4</b> G⊢	G	R	R	R	, T
4 CHAI	NGE	R	R	Ŕ	R	R	R	Y <b>←</b> Y−	Υ <b>4</b> -Υ-	Υ.	R	R	R	4
FLASHI OPERA		FLY	FLY	FLY	FLY	FLY	FLY	FLR	FLR	FLR	FLR	FLR	FLR	





DRAWING NO. TS-3608 A GI

STATE OF MARYLAND DEPARTMENT OF TRANSPORTATION STATE HIGHWAY ADMINISTRATION

OFFICE OF TRAFFIC & SAFETY TRAFFIC ENGINEERING DESIGN DIVISION

GENERAL INFORMATION SHEET MD 22 AND MIDDELTON ROAD ABERDEEN, MD

# TRAFFIC CONCEPTS, INC.

GROUND ROD

STRANDED BARE COPPER GROUND

EXISTING POWER TRASFORMER

325 Gambrills Road Suite E Gambrills, MD 21054 (410) 923-7101

FAX: (410) 923-6473 EMAIL: TRAFFIC@TRAFFIC-CONCEPTS.COM

FILE PATH: M:\2200\2240\Signal\DGN\signal NEW.dgn

SCALE NONE DATE 8-22-08

CONTRACT NO. BW996M82 12002210.50 S. RENZI T.I.M.S. NO. TOD NO.

SHEET NO. 2 OF 3

DATE: Friday, August 22, 2008 AT 11:23 AM